

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 05-124360

(43)Date of publication of application : 21.05.1993

(51)Int.Cl.

B41M 5/30

B41M 5/26

(21)Application number : 03-355078

(71)Applicant : RICOH CO LTD

(22)Date of filing : 20.12.1991

(72)Inventor : SHIMADA MASARU

TSUTSUI KYOJI

KAWAMURA EIICHI

GOTO HIROSHI

MARUYAMA KATSUJI

KUBO TAKASHI

EMA HIDEAKI

YAMAGUCHI TAKEHITO

KUBOYAMA HIRONORI

SAWAMURA ICHIRO

TANIGUCHI KEIJI

(30)Priority

Priority number : 02414436 Priority date : 26.12.1990 Priority country : JP

02414438 26.12.1990

03 42813 14.02.1991 JP

03138476 14.05.1991

03155440 31.05.1991 JP

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03258553 10.09.1991 JP

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(54) REVERSIBLE THERMAL COLOR FORMING COMPOSITION, RECORDING MEDIUM USING SAME, RECORDING METHOD AND APPARATUS

(57)Abstract:

PURPOSE: To stably hold color development and color erasure at room temp. by forming a reversible thermal color forming recording medium by providing a recording layer containing an electron donating color forming compound and a specific electron acceptive compound on a support.

CONSTITUTION: A compound having a 12 or more C aliphatic group such as an organophosphorus compound, an aliphatic carboxylic acid compound or a phenol compound being an electron acceptive compound and an electron donating color forming compound are dissolved or dispersed in a solvent along with a proper resin binder to prepare a coating solution for a recording layer. This coating solution is applied to a support and dried to form the recording layer to obtain a reversible thermal recording medium. It is pref. that a protective layer is provided on the recording layer and an undercoat layer based on a polymeric compound is provided between the support and the recording layer. After the recording layer is formed, it is pref. to perform color development and color erasure in succession at least once.

LEGAL STATUS

[Date of request for examination] 19.05.1997

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 2981558

[Date of registration] 24.09.1999

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

